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INVENTOR-INFORMATION:
NAME
TAKAHASHI, YASUNORI

ASSIGNEE-INFORMATION:
NAME COUNTRY
SAITEKU KK N/A

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ABSTRACT:

PURPOSE: To obtain an optical fiber capable of the display surface of a CRT, etc., becoming a reflection mirror by cutting off external oblique light to the display surface by absorption.

CONSTITUTION: The optical fiber A has a horizontal pattern to the display surface of the CRT4, etc. Light from an interior ceiling lamp and the natural sunshine are oblique rays (r), which pass through a transparent substrate 5 and a primer layer 8, but at least visible rays are absorbed by projection streaks

7 to cut off external light made incident on the display screen 4a. Therefore, the contrast between bright points and their periphery on the display screen 4a is not canceled with the external light to obtain a sharp image. When a polarizing plate is used as the substrate 5, a circular polarizing plate with extremely small reciprocal transmissivity of external light is recommended. Then opposite surfaces of the projection streaks 7 are roughened finely almost at right angles to the surface of the transparent substrate 5. Furthermore, a photosetting resin layer is formed on one surface of the transparent substrate 5 and etched away in an etchant except at the photosetting part to fix plural projection bodies of the resin on the surface of the transparent substrate.

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